

# **DART SERVICE INSTRUCTION**

## **TO AMEND INSTALLATION INSTRUCTIONS PR-C208RT-900M REV. A & INSTRUCTIONS FOR CONTINUED AIRWORTHINESS PR-C208RT-120M REV. B OR LATER APPROVED REVISIONS**

**REF. FAA STC: SA00897DE**

### **1.0 PURPOSE**

The payload mounting holes in the Paravion C208RT-100-(X) Retractable Turret System (RT) match the Wescam MX-20 imaging system. The DSI 9897-011 Adapter Kit is available from DART Aerospace and provides mounting holes that match the Wescam MX-15 imaging system.

### **2.0 INSTALLATION**

Install the DSI 9897-011 Adapter Kit onto the RT as follows:

- 2.1 Prior to installation, prime/paint the D5928-041 Adapter Assy as follows. Mask mating surface of qty(1) hole per mating surface using GT00427 disc (or Ø7/16" area) to allow electrical bonding. On side that mates with RT-1000-23 Yoke (ref), ensure that the masked hole corresponds to masked hole in yoke (see Figures 1 and 2 of this Service Instruction). Apply primer per MIL-PRF-23377 (or equivalent) and finish coat flat black enamel paint.
- 2.2 If installing a MX-15 imaging system, the RT-1000-23 Yoke (ref) must be installed using the lower (3) attachment holes to ensure yoke & payload clears the doors. Reference Section 2.5.2 and Figure 9 of Component Servicing Instructions PR-C208RT-910M.
- 2.3 Attach D5928-041 Adapter Assy to RT-1000-23 Yoke (ref) using qty(16) AN4-17A bolts and associated hardware per Figure 2 of this Service Instruction. Orient the D5298-041 Adapter Assy so that the lower plate protrudes fwd. Ensure proper orientation by aligning the qty(2) Ø0.188 holes in the D5298-041 Adapter Assy with the corresponding holes in the RT-1000-23 yoke. Torque AN4-17A bolts 50-70 in-lb.
- 2.4 Maximum payload weight is 110 lb with the DSI 9897-011 Adapter Kit installed. Payload installation and support equipment approval is the responsibility of the installer. Fasteners that meet or exceed NAS1351 series socket head cap screws (minimum tensile strength of 180 ksi) of 0.250-inch diameter and appropriate length are recommended when attaching payload to the adapter. If a Wescam MX-15 imaging system is installed on the adapter, the fwd direction of the installed camera will be -116° from the camera's nominal fwd position.

### **3.0 WEIGHT AND BALANCE**

INSTALLATION	WEIGHT (LB)	F.S. (IN)	B.L. (IN)	LONGITUDINAL MOMENT	LATERAL MOMENT
DSI 9897-011 Adapter Kit	8.5	235.2	0	1999	0

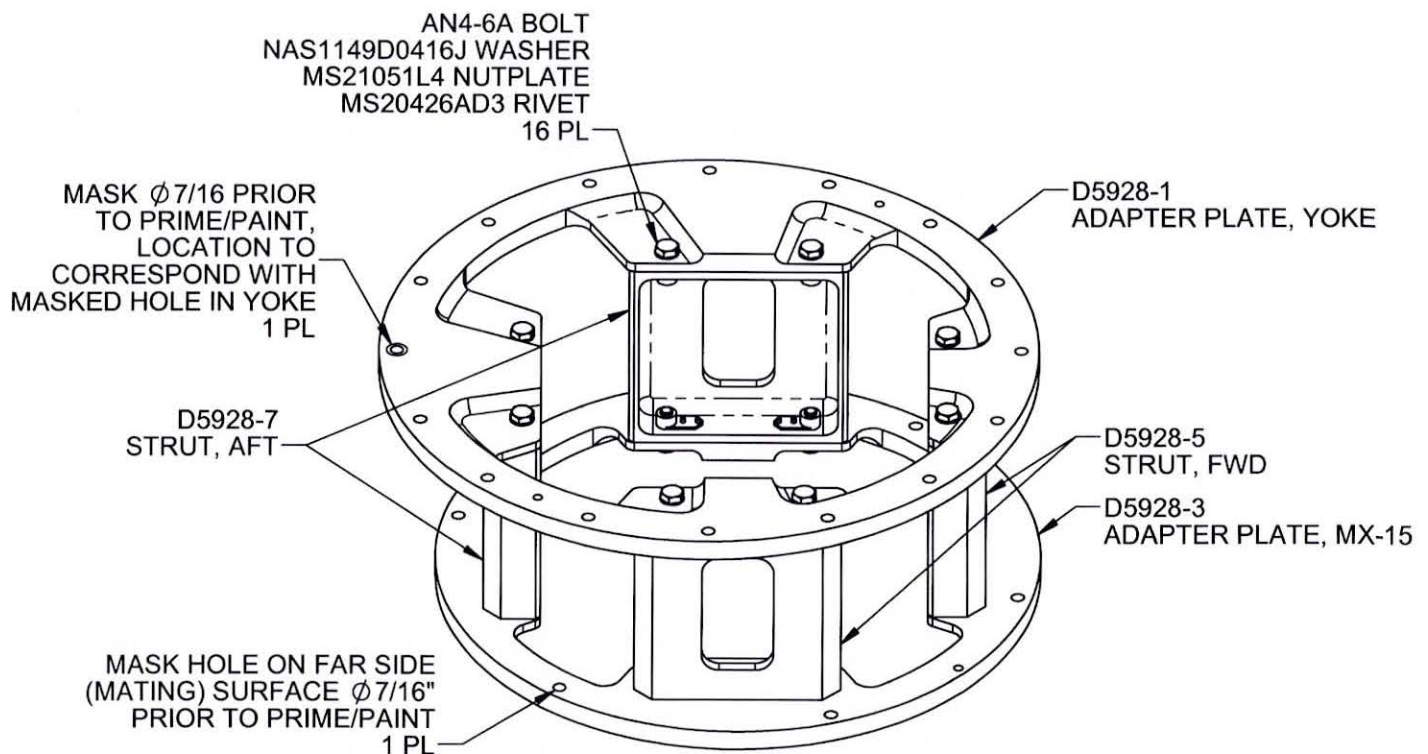
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REV.	DESCRIPTION	BY	DATE
DESIGN	CP	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	CP		
CHECKED	SAD	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9897	SHEET 1 OF 3
APPROVED	CP	TITLE	SCALE
DE APPR.	CP	ADAPTER KIT FOR MX-15	NTS
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#### 4.0 PARTS LIST

QTY	PART NUMBER	DESCRIPTION
X	DSI 9897-011	Adapter Kit, MX-15
1	D5928-041	Adapter Assy, MX-15
(1)	*D5928-1	Adapter Plate, Yoke
(1)	*D5928-3	Adapter Plate, MX-15
(2)	*D5928-5	Strut, Fwd
(2)	*D5928-7	Strut, Aft
(16)	*AN4-6A	Bolt
(16)	*NAS1149D0416J	Washer (or AN960JD416L)
(32)	*MS20426AD3	Rivet
(16)	*MS21051L4	Nutplate
16	AN4-17A	Bolt
32	NAS1149D0463J	Washer (or AN960JD416)
16	MS21042L4	Nut

\* Indicates that part is included in D5928-041 Adapter Assembly above.

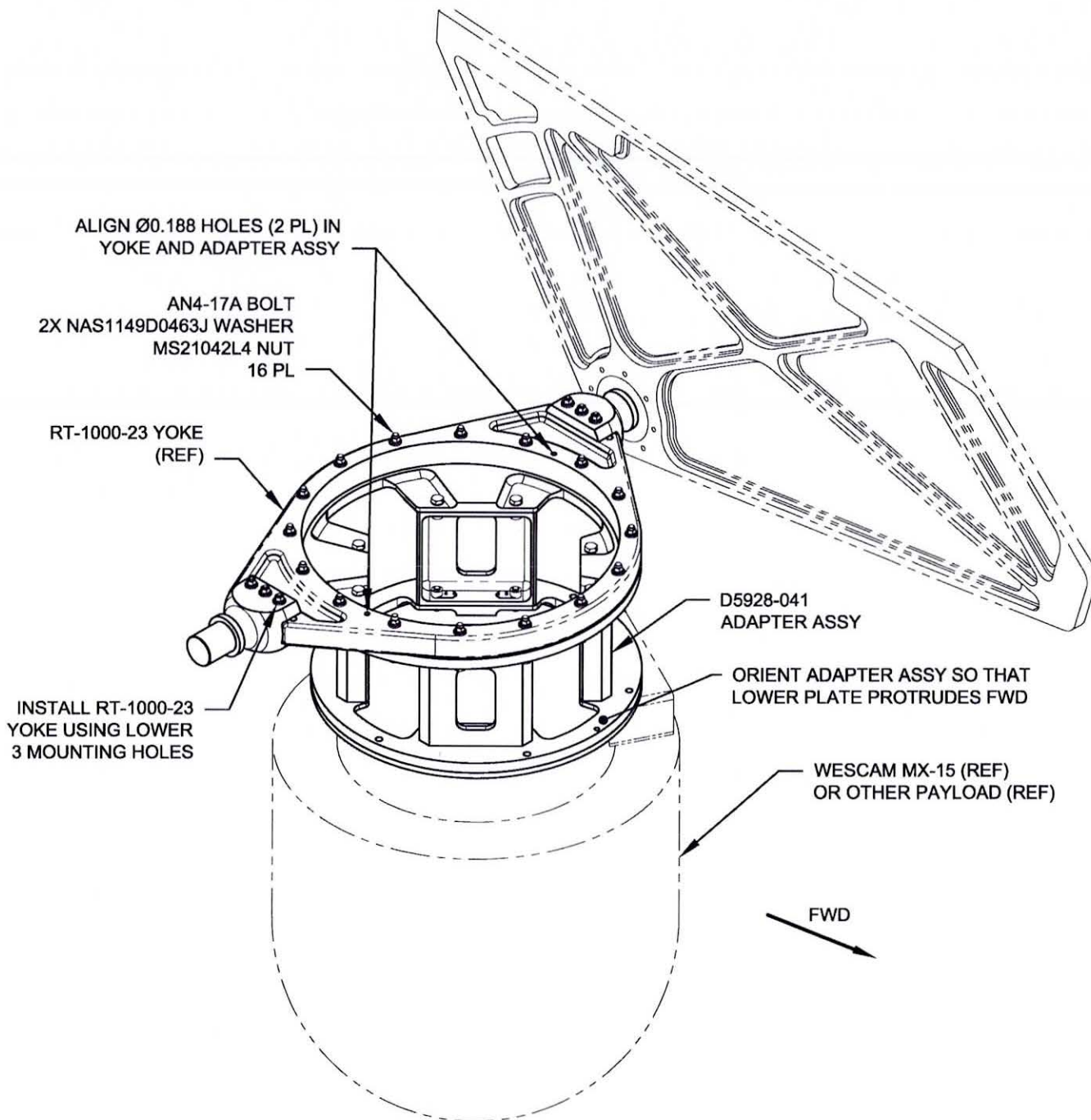


**FIGURE 1 - D5928-041 ADAPTER ASSY**

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MFG. APPR.	N/A	<b>DSI 9897</b>	SHEET 2 OF 3
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**FIGURE 2 - DSI 9897-011 ADAPTER KIT**  
(MAJORITY OF RETRACTABLE TURRET STRUCTURE  
REMOVED FOR CLARITY)

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